

```

OPTIONS PAGENO=1;

DATA BASELINEALL;
  LENGTH SITE $20;
  INFILE BaselineSAS\BaselineSas.TXT' DLM = ',' ;
  INPUT PATNO$ site group$ priordaysonevent pbw vsimv$ psvp$
        assist$ pcvp$ pcirv$ other$ AGE
        gender$ APACHE TV TVKG pplat peakP PEEP FIO2 PAO2
        PACO2 ARTPH dead$ deadday uab28$ uab28day icu28$ icu28day dis_alive$
        disaliveday vfd bardays cardio cns coag renal hepatic;
  *this reads in the FOIA dataset labeled "baselineSAS";

COMP= (TVKG/(PPLAT-PEEP));
O2Ratio=PAO2/FIO2;
if o2ratio ge 140 then hi_o2ratio=1;else hi_o2ratio=0;

if comp lt .405 then comp4=1;
if comp ge .405 and comp lt .503 then comp4=2;
if comp ge .503 and comp lt .612 then comp4=3;
if comp ge .612 then comp4=4;
if comp=. then comp4=.;

*      IF COMP=. THEN DELETE;

reason=group;
if dead='No' then newdead=0;
if dead='Yes' then newdead=1;
in_study=1;

proc freq;
  tables hi_o2ratio*group*newdead;
  run;

TITLE;
OPTIONS PAGENO=1;
DATA SCREEN;
  length REASON $35;
  INFILE 'screen.TXT' DLM=',' ;
  INPUT PATNO$ site$ VDATE:MMDDYY8. scre1$ scre2$ scre3$ PAO2 FIO2
  FDATE:MMDDYY8.
        gender$ ethnic$ AGE locat$ LOCOTH$ rsicu$ reason trauma$
        sepsis$ multran$ aspir$ pneum$ other$ OTHTXT$ UNASSIS:MMDDYY8.
  DISCH:MMDDYY8. disstat$;

  *this reads in the FOIA dataset labeled "screen";

IF REASON = 'Informed consent not obtained' THEN REASON= 'Patient Unable';

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    IF REASON IN ('Inclusion Criteria >36 hrs', 'MD Refuses', 'Not excluded', 'Other
Trials 30 Days' 'Patient Refuses',
'Patient Unable') THEN INCLUSION=1; /*These represent our patients to include*/
ELSE INCLUSION=0;

    O2Ratio=PAO2/FIO2;
    if o2ratio ge 140 then hi_o2ratio=1;else hi_o2ratio=0;

    IF LOCAT = 'Cardiac' then LOCAT='CCU';

    if locat="SICU" then sicu=1;else sicu=0;

    TITLE 'PaO2/FiO2 Ratio in SCREEN Stduy';

    IF INCLUSION=0 THEN DELETE;
    if disstat='Alive' then newdead=0;
    if disstat='Dead' then newdead=1;
in_study=0;

    set baselineall screen;
    proc sort;by hi_o2ratio;

proc freq;
table reason*newdead/chisq;
by hi_o2ratio;

proc glm;
class reason;
model newdead=reason;
means reason/tukey lines;
by hi_o2ratio;
RUN;

```

PaO2/FiO2 Ratio in SCREEN Stduy

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The FREQ Procedure

Table 1 of group by newdead
Controlling for hi_o2ratio=0

group	newdead			
	Frequency,			
	Percent			
	Row Pct			
	Col Pct			Total
12 ml/kg	0, 1,			
	ffffffffff^ffffffffff^ffffffffff^			
	141, 99,			240
	, 29.25, 20.54,			49.79
	, 58.75, 41.25,			
	, 47.64, 53.23,			
6 ml/kg	0, 1,			
	ffffffffff^ffffffffff^ffffffffff^			
	155, 87,			242
	, 32.16, 18.05,			50.21
	, 64.05, 35.95,			
	, 52.36, 46.77,			
Total	296 186 482			
	61.41 38.59 100.00			

Table 2 of group by newdead
Controlling for hi_o2ratio=1

group	newdead			
Frequency,				
Percent				
Row Pct				
Col Pct	0	1	Total	
12 ml/kg	115	74	189	
	, 30.34	, 19.53	49.87	
	, 60.85	, 39.15		
	, 44.57	, 61.16		
6 ml/kg	143	47	190	
	, 37.73	, 12.40	50.13	
	, 75.26	, 24.74		
	, 55.43	, 38.84		
Total	258	121	379	
	68.07	31.93	100.00	

Pa02/Fi 02 Ratio in SCREEN Stduy

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----- hi_o2ratio=0 -----

The FREQ Procedure

Table of reason by newdead

reason	newdead			
Frequency,				
Percent				
Row Pct				
Col Pct	0	1	Total	
12 ml/kg	141	99	240	
	, 8.00	, 5.62	13.62	
	, 58.75	, 41.25		
	, 13.06	, 14.52		
6 ml/kg	155	87	242	
	, 8.80	, 4.94	13.73	
	, 64.05	, 35.95		
	, 14.35	, 12.76		
Incl usio	375	239	614	
	, 21.28	, 13.56	34.85	
	, 61.07	, 38.93		
	, 34.72	, 35.04		
MD Refus	111	68	179	
	, 6.30	, 3.86	10.16	
	, 62.01	, 37.99		
	, 10.28	, 9.97		
Not excl	17	15	32	
	, 0.96	, 0.85	1.82	
	, 53.13	, 46.88		
	, 1.57	, 2.20		
Other Tr	69	36	105	
	, 3.92	, 2.04	5.96	
	, 65.71	, 34.29		
	, 6.39	, 5.28		
Patient	212	138	350	
	, 12.03	, 7.83	19.86	
	, 60.57	, 39.43		
	, 19.63	, 20.23		
Total	1080	682	1762	
	61.29	38.71	100.00	

Frequency Missing = 9

Pa02/Fi 02 Ratio in SCREEN Stduy

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----- hi_o2ratio=0 -----

The FREQ Procedure

Statistics for Table of reason by newdead

Statistic	DF	Value	Prob
Chi-Square	6	3.3224	0.7674
Likelihood Ratio Chi-Square	6	3.3197	0.7678
Mantel-Haenszel Chi-Square	1	0.0171	0.8959
Phi Coefficient		0.0434	
Contingency Coefficient		0.0434	
Cramer's V		0.0434	

Effective Sample Size = 1762
Frequency Missing = 9

Pa02/Fi02 Ratio in SCREEN Study

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----- hi_o2ratio=1 -----

The FREQ Procedure

Table of reason by newdead

reason	newdead	Frequency	Percent	Row Pct	Col Pct	Total
12 ml/kg	0	115	6.82	4.39	74	189
		,	,	, 60.85	, 39.15	,
		,	,	, 9.30	, 16.48	,
6 ml/kg	1	143	8.48	2.79	47	190
		,	,	, 75.26	, 24.74	,
		,	,	, 11.56	, 10.47	,
Inclusion	1	408	24.20	9.91	167	575
		,	,	, 70.96	, 29.04	,
		,	,	, 32.98	, 37.19	,
MD Refus	1	220	13.05	3.32	56	276
		,	,	, 79.71	, 20.29	,
		,	,	, 17.78	, 12.47	,
Not excl	1	54	3.20	0.30	5	59
		,	,	, 91.53	, 8.47	,
		,	,	, 4.37	, 1.11	,
Other Tr	1	72	4.27	1.25	21	93
		,	,	, 77.42	, 22.58	,
		,	,	, 5.82	, 4.68	,
Patient	1	225	13.35	4.69	79	304
		,	,	, 74.01	, 25.99	,
		,	,	, 18.19	, 17.59	,
Total	1	1237	73.37	26.63	449	1686
						100.00

Frequency Missing = 5

Pa02/Fi02 Ratio in SCREEN Study

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----- hi_o2ratio=1 -----

The FREQ Procedure

Statistics for Table of reason by newdead

Statistic	DF	Value	Prob
Chi-Square	6	33.7097	<.0001
Likelihood Ratio Chi-Square	6	35.3522	<.0001

Mantel-Haenszel Chi-Square	1	8.6551	0.0033
Phi Coefficient		0.1414	
Contingency Coefficient		0.1400	
Cramer's V		0.1414	

Effective Sample Size = 1686
Frequency Missing = 5

Pa02/Fi02 Ratio in SCREEN Study

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----- hi_o2ratio=0 -----

The GLM Procedure

Class Level Information

Class	Levels	Values
reason	7	12 ml/kg 6 ml/kg Inclusion Refusal Not excluded Other Treatment Patient

Number of Observations Read	1771
Number of Observations Used	1762

Pa02/Fi02 Ratio in SCREEN Study

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----- hi_o2ratio=0 -----

The GLM Procedure

Dependent Variable: newdead

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	0.7882137	0.1313690	0.55	0.7683
Error	1755	417.2367579	0.2377417		
Corrected Total	1761	418.0249716			

R-Square	Coeff Var	Root MSE	newdead Mean
0.001886	125.9721	0.487588	0.387060

Source	DF	Type I SS	Mean Square	F Value	Pr > F
reason	6	0.78821370	0.13136895	0.55	0.7683
Source	DF	Type III SS	Mean Square	F Value	Pr > F
reason	6	0.78821370	0.13136895	0.55	0.7683

Pa02/Fi02 Ratio in SCREEN Study

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----- hi_o2ratio=0 -----

The GLM Procedure

Tukey's Studentized Range (HSD) Test for newdead

NOTE: This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	1755
Error Mean Square	0.237742
Critical Value of Studentized Range	4.17443
Minimum Significant Difference	0.1871
Harmonic Mean of Cell Sizes	118.353

NOTE: Cell sizes are not equal.

Means with the same letter are not significantly different.

Tukey Grouping	Mean	N	reason
A	0.46875	32	Not excl
A	0.41250	240	12 ml/kg
A	0.39429	350	Patient
A	0.38925	614	Inclusion
A	0.37989	179	MD Refus
A	0.35950	242	6 ml/kg
A	0.34286	105	Other Tr

Pa02/Fi02 Ratio in SCREEN Study

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----- hi_o2ratio=1 -----

The GLM Procedure

Class Level Information

Class	Levels	Values
reason	7	12 ml/kg 6 ml/kg Inclusion MD Refus Not excl Other Tr Patient

Number of Observations Read	1691
Number of Observations Used	1686

Pa02/Fi02 Ratio in SCREEN Study

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----- hi_o2ratio=1 -----

The GLM Procedure

Dependent Variable: newdead

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	6	6.5865110	1.0977518	5.71	<.0001
Error	1679	322.8399421	0.1922811		
Corrected Total	1685	329.4264531			

R-Square	Coeff Var	Root MSE	newdead Mean
0.019994	164.6567	0.438499	0.266311

Source	DF	Type I SS	Mean Square	F Value	Pr > F
reason	6	6.58651100	1.09775183	5.71	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
reason	6	6.58651100	1.09775183	5.71	<.0001

Pa02/Fi02 Ratio in SCREEN Study

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----- hi_o2ratio=1 -----

The GLM Procedure

Tukey's Studentized Range (HSD) Test for newdead

NOTE: This test controls the Type I experimentwise error rate, but it generally has a higher Type II error rate than REGWQ.

Alpha	0.05
Error Degrees of Freedom	1679
Error Mean Square	0.192281
Critical Value of Studentized Range	4.17465

Minimum Significant Difference	0.1499
Harmonic Mean of Cell Sizes	149.2289

NOTE: Cell sizes are not equal.

Means with the same letter are not significantly different.

Tukey Grouping	Mean	N	reason
A	0.39153	189	12 ml/kg
A	0.29043	575	Inclusion
B	0.25987	304	Patient
B	0.24737	190	6 ml/kg
B	0.22581	93	Other Tr
B	0.20290	276	MD Refus
C	0.08475	59	Not excl